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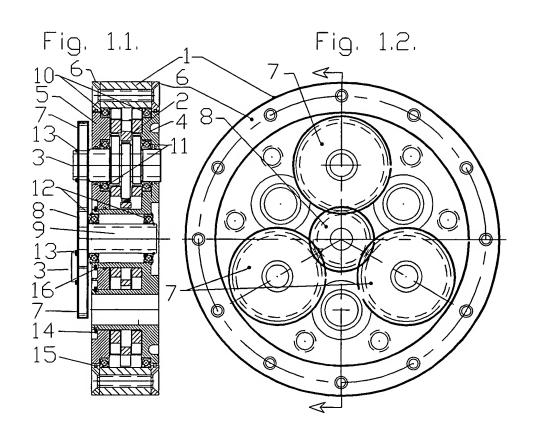
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Appl.No. 10/042,626 Amdt. Dated July 22, 2004 Reply to office action of Aug.17,2004 Replacement Sheet CY-FIG1

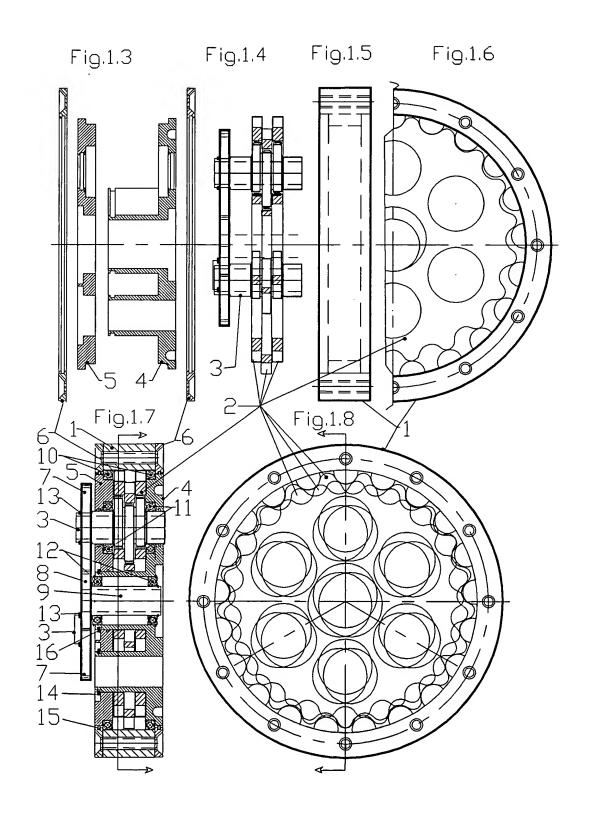
Table 1 (Parts Name to Fig.1. .)

- 1 CYCLO ID-GEAR HOUSING
- 2 CYCLO OD-GEAR DISK
- 3 ECCENTRIC 0+120+240deg. HDLLOW SHAFT
- 4 DRIVE-THROUGH HOLLOW FLANGE
- 5 CONTAINING FLANGE
- 6 BEARING RETAINER
- 7 PLANET GEARS
- 8 PLANET SUN GEAR
- 9 SUN GEAR HOLLOW AXIS
- 10 BEARING CYCLO AXIS
- 11 ECCENTRIC BEARING
- 12 BEARING SUN GEAR SHAFT
- 13 SNAP RING PLANET GEAR
- 14 SNAP RING FLANGE
- 15 SEAL X-TYPE
- 16 SNAP RING CENTER OF HOUSING



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Replacement Sheet CY-FIG2



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Replacement Sheet CY-FIG3

Table 2 (Cyclo Gear Relations and Symbols)

R = radius of cyclo tooth r = r of Arc Tan(R,D_{1,2},R) D = diameter at tooth centers

= offset of eccentrics

Z1 = number of cyclo gear teeth

Z2 = number of cyclo disk teeth

Relations:

Z2 = Z1 - 1

 $D1 = Z1 \times R$

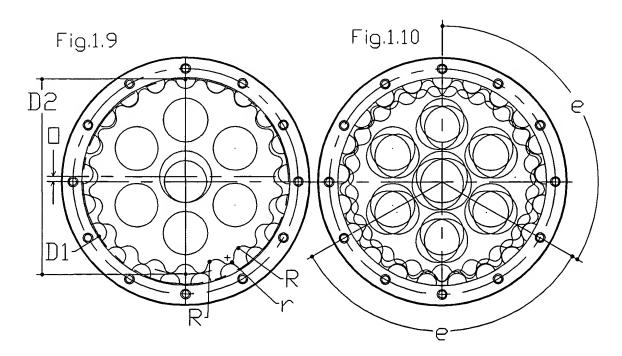
 $D2 = Z2 \times R$

 $\Box = R/2$

U = R2/R1 - 1

U total = (Z sun / Z planet) (U cycle)

e = Ecc. Index = 360deg /No of Cyclo Disks

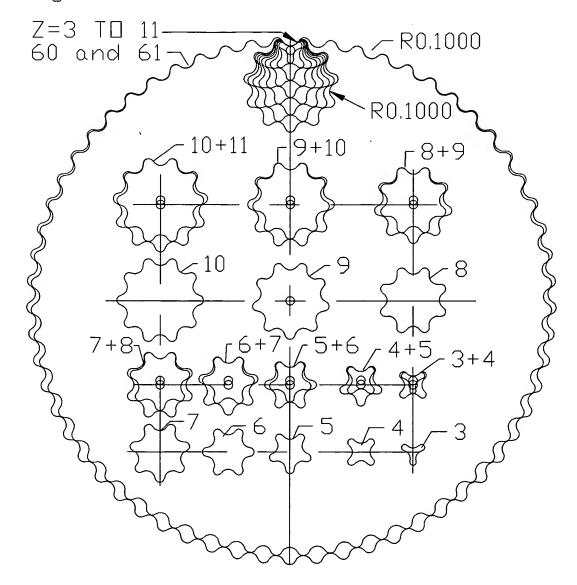


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Replacement Sheet CY-FIG4

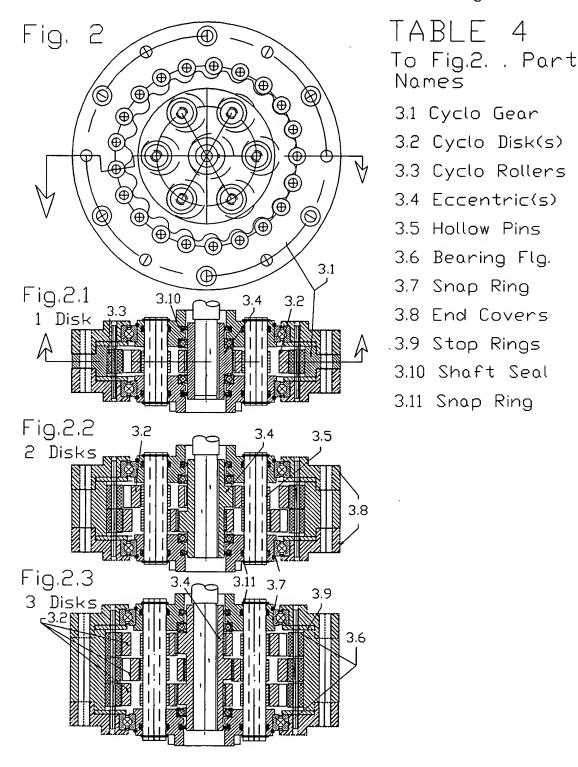
TABLE 3
Sample Cyclo Gear Relations from 3 to 11 and 60 and 61 Cycle Teeth

Fig. 1.11



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Center-Driven Cyclo Gear Axes with one Fig.2.1, two Fig.2.2, three Fig. 2.3 Center-Driven Wave Disks, six hollow Driveout Pints and Bushings.



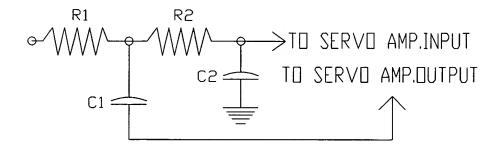
Appl.No. 10/042,626 Amdt. Dated July 22, 2004 Reply to office action of Aug.17,2004 Replacement Sheet CY-FIG6

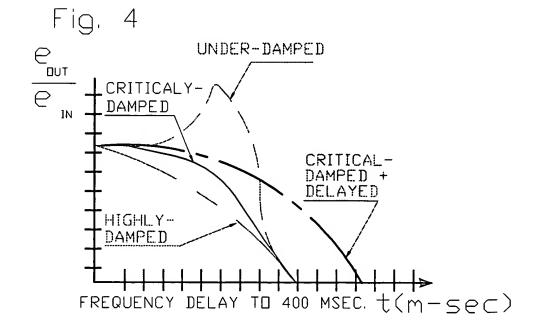
Fig. 3

FREQUENCY SHIFT AND SERVO

FILTER TO CONTROL CRITICAL

FREQUENCY VIBRATION





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Fig. 5

ONE DISK ABSOLUTE ANGULAR ROTATION ENCODER USING LOW-POWER INFRARED LED, TTL UP/DOWN COUNTER WITH

